

Middle Eel River Watershed Initiative

A Coalition Led By Manchester College



Middle Eel River Watershed Initiative

Cost-Share Program

January 25, 2011

Miami, Wabash, Kosciusko and Fulton County, Indiana

Funded by IDEM

Clean Water Act Section 319 Grant

and Initiative Partners

Middle Eel River Watershed Management Plan Cost-Share Program

ARN: A305-9-90

Name of plan: Middle Eel River Watershed Management Plan

Target Watersheds:

The target watersheds for the cost-share program are the Critical Areas as identified in the Watershed Management Plan. Target watersheds, name and 12 digit HUC:

- Silver Creek 051201040501
- Beargrass Creek 051201040503
- Little Weesau-Weesau Creek 051201040602
- Flowers Creek 051201040601
- Otter Creek 051201040502
- Squirrel Creek 051201040505
- Town of Roann 051201040509
- Washonis Creek 051201040603
- Oren Ditch-Paw Paw Creek 051201040508

Critical Area Watersheds can be found in the Watershed Management Plan Section 5, pages 5-1 through 5-8. A map of the Critical areas in the Watershed is shown in Figure 1.

Middle Eel River Watershed Critical Area Subwatersheds

Legend

- Eel River
- Streams
- Major Roads
- Non-Critical Subwatersheds
- High Priority Critical Subwatersheds
- Secondary Priority Critical Subwatersheds

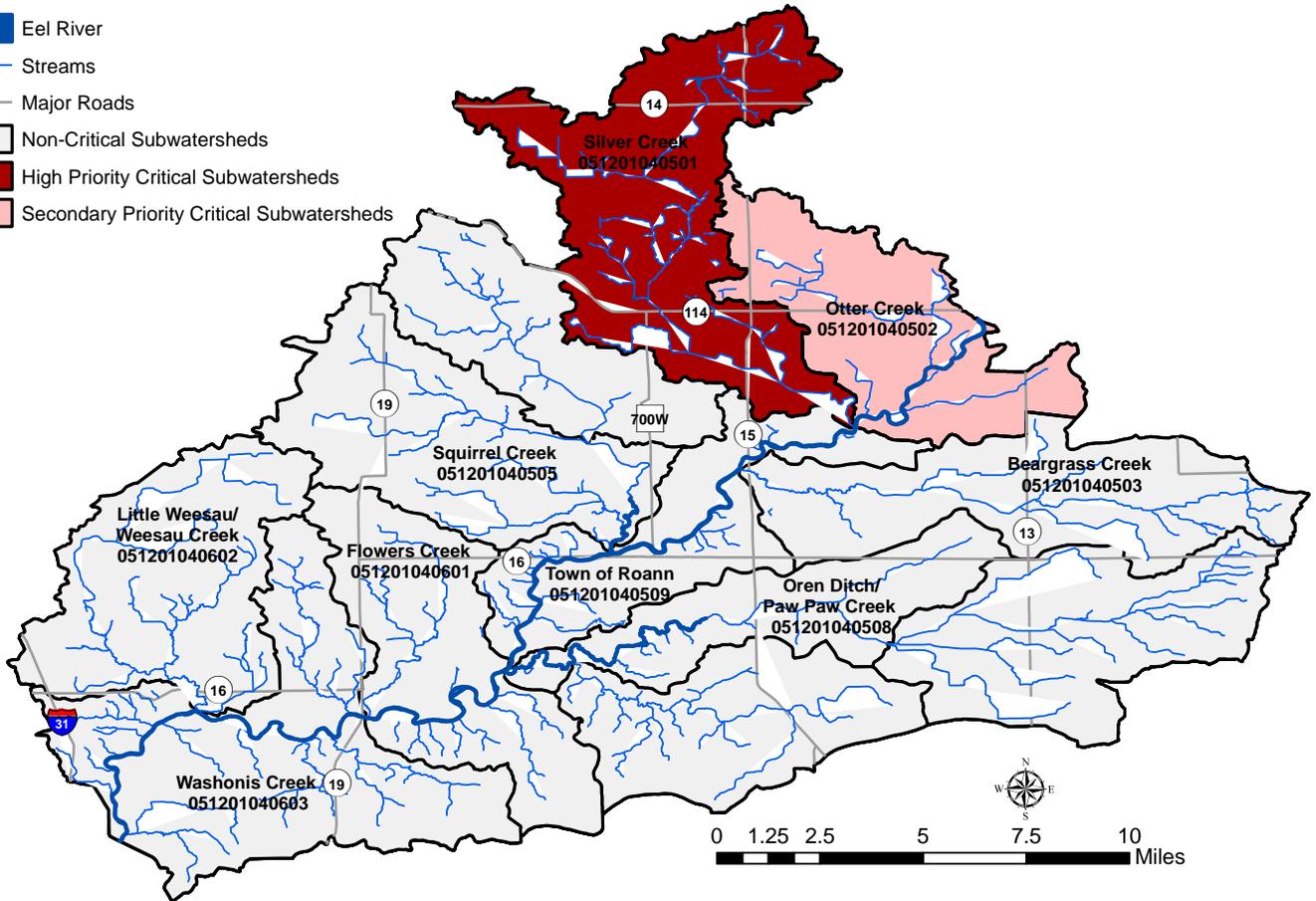


Figure 1. Middle Eel River Watershed – Critical Area Subwatersheds.

Target Audience:

Eighty nine percent of land use in the watershed is agricultural which is the main focus of this cost-share program. Property owners in high priority critical 12 digit HUCs identified above, and property owners in secondary priority critical 12 digit HUCs as listed above, that are interested in applying best management practices (BMPs) that will decrease non-point source pollution, particularly suspended sediment, nitrogen, total phosphorus and E. coli is the target audience. In addition to property owners, small animal feed operators (without NPDES Permits) and professional precision applicators working within the critical watersheds listed above will be targeted. Eligible BMPs are identified in the Watershed Management Plan (Section 6, Pages 24-25, Figure 6-1) and listed in below in Table 1.

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Table 1. BMPs eligible for cost-share in the Middle Eel River Watershed

Practice Code	Conservation Practice	Target Pollutant	Unit	Ave. Cost per Unit	75% Cost-Share
472	Access Control	<i>E. coli</i> , nutrients	Ac.	75.00	56.25
316	Animal Mortality Facility	<i>E. coli</i>	Animal Unit	1013.00	760.00 Cap \$22,000.00
342	Critical Area Planting	Sediment	Ac.	862.00	646.50
340	Cover Crops	Sediment, nutrients	Ac.	41.33	31.00
	Equipment Modification (Conservation Tillage, Cover Crops, and /or Precision Nutrient Application)	Sediment, <i>E. coli</i> , nutrients	No.		Cap \$10,000.00
382	Fence	<i>E. coli</i> , nutrients	Ft.	1.00	.75
393	Filter Strip	Sediment, nutrients	Ac.	150.00	112.50
410	Grade Stabilization Structure (Not in waters of the state)	Sediment	No.	4,455.00	3,341.25
412	Grassed Waterway (with Erosion Control Blanket)	Sediment, nutrients	Ac.	8,400.00	6,300.00
561	Heavy Use Area Protection	Sediment	Sq. Ft.	1.00	0.75
468	Lined Waterway Outlet	Sediment, nutrients	Ft.	43.00	32.25
590	Nutrient Management	Nutrients	Ac.	22.00	16.50
582	Open Channel (2-Stage Ditch)	Sediment, nutrients	Ft.	21.33	16.00
512	Pasture & Hay Planting	Sediment, nutrients	Ac.	246.66	185.00
516	Pipeline	Sediment	Ft.	2.00	1.50
528	Prescribed Grazing	Sediment, nutrients	Ac.	25.00	18.75
329/345	Residue Mngt. No Till	Sediment, nutrients	Ac.	21.00	15.75
329/345	Residue Mngt. Mulch Till	Sediment, nutrients	Ac.	8.00	6.00
290	Riparian Herbaceous Cover	Sediment, nutrients	Ac.	321.00	240.75
578	Stream Crossing	<i>E. coli</i> , nutrients	No.	4,043.00	3,032.50
585	Strip Cropping	Sediment, nutrients	Ac.	4.00	3.00
587	Structure for Water Control	Nutrients	No.	1,191.00	893.25
612	Tree & Shrub Establishment	Sediment, nutrients	Ac.	523.00	392.25
620	Underground Outlet	Sediment	Ft.	5.00	3.75
313	Waste Storage Facility	<i>E. coli</i> , nutrients	Sq. Ft.	Varies	Varies
633	Waste Utilization	<i>E. coli</i> , nutrients	Ac.	42.00	31.50
638	Waste & Sediment Control Basin	Sediment, nutrients	No.	2,011.00	1,508.25
614	Watering Facility	<i>E. coli</i> , nutrients	No.	923.00	692.25
657	Wetland Restoration	Sediment, nutrients	Ac.	2,231.00	1,673.25

Maximum Cost-Share: Maximum cost-share will be 75% of the **actual cost**, with a maximum of 75% of the average cost as listed in Table 1.

Advertisement & Outreach Approach: The Cost-Share Program will be advertised through: media releases, announcements in Middle Eel River Watershed Initiative Newsletter and Website, NRCS and SWCDs of Wabash, Miami and Kosciusko counties, and at annual public meetings.

Review Process: Cost Share applications will be reviewed by the Technical Subcommittee using the Middle Eel River Watershed Cost-Share Ranking Sheet.

A point system will be used for ranking and is included on the Ranking Form

Administration of Cost-Share Program: The Middle Eel River Watershed Coordinator will be responsible for the administration of the Cost-Share Program.

Funding Caps: There is a \$10,000 cap on equipment modifications and a \$22,000.00 cap for animal mortality facility. There is no maximum cost-share on any other practice or on an individual applicant.

Field Equipment Modifications:

Land owners operating within critical areas may apply for equipment modification cost share funds that will allow for precision application of nutrients and/or conservation tillage practices. Maximum cost-share will be \$10,000.00 for equipment modification.

Professional (commercial) precision applicators, licensed by the Office of the Indiana State Chemist, are also eligible for Equipment Modification cost share funds for equipment modifications that will allow for precision application of nutrients and/or conservation tillage. The equipment must be an upgrade to or addition of technology new to the facility and the equipment must be used on land in critical areas prior to reimbursement. The landowner where the equipment will be first used must sign the 319(A) Application Form (both the landowner and the commercial applicator are agreeing to maintain the practice for 5 years).

Review and Approve BMPs: NRCS District Conservationists of Wabash, Miami and Kosciusko counties will review and approve installation of BMPs according to NRCS standards. District Conservationists are aware of their responsibility for review and approval. Applications will be reviewed and ranked monthly.

Agricultural BMPs will be installed based on NRCS standards.

Permits for BMPs: Any required permits will be the responsibility of the property owner where the practice will be applied.

Maintaining BMPs: The cost-share recipient will be responsible for the operation and maintenance of vegetative BMPs for 5 years and structural BMPs for 10 years.

Deadlines: The cost-share program ends when all monies have been allocated. All landowners who have been approved for cost-share funding must have practices installed and invoices received on or before December 31, 2012. The cost-share program will end on December 31, 2012.

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Middle Eel River Watershed Initiative 319 Agriculture Cost-Share Program Application Form					
SECTION A					
Applicant Name			Applicant Address		
Phone#			County		
Landowner Name			Landowner Address		
Farm #	Tract #		Field #	Section #	
Township	Range		Civil Township	USGS Quad Name	
Latitude and Longitude					
12 Digit Watershed Name and Number (HUC)					
SECTION B					
Best Management Practice(s) needed to improve or maintain water quality					
Field #	NRCS Practice Title	Quantity/Unit	Distance from Waterbody	Slope	Approx. Install Date
SECTION C					
Check all those that apply to your operation					
<input type="checkbox"/>	Conservation Plan	<input type="checkbox"/>	Animal Feeding Operation		
<input type="checkbox"/>	Nutrient Management Plan	<input type="checkbox"/>	Confined Feeding Operation		
<input type="checkbox"/>	Pest Management Plan	<input type="checkbox"/>	Current Soil Tests		
<input type="checkbox"/>	Manure Management Plan	<input type="checkbox"/>	Current Manure Tests		
<input type="checkbox"/>	Comprehensive Nutrient Management Plan	<input type="checkbox"/>	Map (Field boundaries, field numbers, acres, etc.) Please attach		

I hereby state that I own or have control of the above listed land under consideration for the Middle Eel River Watershed Cost-Share Program. I understand that in order to receive payment for implemented practices a conservation plan must be in place for the land benefitted by this cost-share program before cost-share dollars will be paid. I also understand that vegetative practices installed through this cost-share program must be maintained for 5 years and structural practices for 10 years.

APPLICANT SIGNATURE:

DATE:

This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement C9975482-08 to the Indiana Department of Environmental Management. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

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**Middle Eel River Watershed Cost-Share Program Ranking Sheet
(To be filled out by Technical Sub-Committee)**

Written Conservation Plan Required	Yes	No	Maximum Possible Points	Actual Points
Watershed Criteria				
Critical High Priority Subwatershed (Silver, Weesau or Beargrass Creek)			(20)	
Critical Secondary Priority (Flowers, Otter, Oren Ditch {Paw Paw}, Squirrel, Town of Roann, Washonis)			(10)	
Non-Critical Subwatershed (Bolley Ditch, Sharp Ditch, Bachelor Creek)	STOP HERE NOT ELIGIBLE			
Location and Project Elements				
	Yes	No	Maximum Possible Points	Actual Points
Is project located less than 500 feet to a water body?			(40)	
500 feet – 1,000 feet to a water body?			(20)	
Greater than 1,000 feet to a water body?			(10)	
Are crop fields, pastures or woodland to be treated considered to be Highly Erodible Soil (HEL)?				
Slopes 5%-10%			(20)	
Slopes greater than 10%			(40)	
Are crop fields, pasture or woodland to be treated considered to be Non-Highly Erodible Soil (<than 5% slopes) with a serious erosion present?			(20)	
Cropland				
	Yes	No	Maximum Possible Points	Actual Points
Does the project convert current row cropland (row crops) to permanent hay land, pasture, woodland or wildlife habitat?				
Slopes less than 5%			(10)	
Slopes of 5% - 10%			(20)	
Slopes greater than 10%			(40)	
Does the project propose a conservation tillage system that leaves greater than 30% residue?				
Slopes less than 5%			(10)	
Slopes 5% - 10%			(20)	
Slopes greater than 10%			(40)	

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	Yes	No	Maximum Possible Points	Actual Points
Does the project include using winter cover crops?				
Slopes less than 5%			(10)	
Slopes 5% - 10%			(20)	
Slopes greater than 10%			(40)	
Will the project use cover crops in combination with a conservation tillage system?			(50)	
Is manure applied to crops in the project area?				
Last soil test within 2 years			(5)	
Last soil test within 4 years			(10)	
Soil never tested			(20)	
Does the project include precision nutrient application?			(40)	
Will the project use precision nutrient application in combination with cover crops and a conservation tillage system?			(70)	
Does the project establish grass filter strips or herbaceous riparian buffers along streams on your farm?				
30 foot width			(20)	
90 foot width			(40)	
Will the project use filter strips and/or herbaceous riparian buffers in combination with precision nutrient application, cover crops, and a conservation tillage system?			(100)	
Livestock – Funds may not be used on Confined Animal Feed Operations (CAFO) with NPDES Permit				
	Yes	No	Maximum Possible Points	Actual Points
Is the project area an Animal Feed Operation (AFO) or Confined Feed Operation (CFO)?				
Is there a Comprehensive Nutrient Management Plan (CNMP) for the project area?				
Does the project restrict livestock access to streams, ponds, wetlands or springs?				
Perennial or Intermittent Stream			(40)	
Other Water Bodies			(20)	

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	Yes	No	Maximum Possible Points	Actual Points
Does the project address a pasture with inadequate ground cover to protect against erosion (<50% cover)			(20)	
Does the project include renovation and maintenance of the pasture as a managed grazing system?			(40)	
Does the project address an animal waste system that has concentrated runoff from barns, feedlots, watering areas or land manure application within 500 feet to a water body?			(40)	
Does the project include the creation and implementation of a manure management plan?			(50)	
Feasibility & Economics				
There are no other conservation programs that are available for your project in the proposed area.			(20)	
Necessary permits are in place if needed.			(10)	
Habitat				
Will the project provide new wildlife habitat?			(40)	
Will the project protect existing wildlife habitat?			(40)	
Water Quality Impact Criteria (More than 1 may apply)				
Will the project address:				
Sedimentation (Erosion)			(50)	
Nutrients			(50)	
E. coli			(50)	
Will the project address more than one of the above water quality concerns?			(50)	
TOTAL POINTS				